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ATTY. DOCKET NO. 10589-013-999	APPLICATION NO. 10/551,301
APPLICANT Trotta, C.	
FILING DATE July 12, 2006	ART UNIT 1639

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	PAGES, COLUMNS, LINES, WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
A01	4,987,071	01/22/91	Cech et al.	
A02	5,093,246	03/03/92	Cech et al.	
A03	5,310,664	05/10/94	Butow et al.	
A04	5,354,855	10/11/94	Cech et al.	
A05	5,439,797	08/08/95	Tsien et al.	
A06	5,591,610	01/07/97	Cech et al.	
A07	5,726,195	03/10/98	Hill et al.	
A08	5,776,738	07/07/98	Dell'Orco Sr.	
A09	5,939,288	08/17/99	Thornburg	
A10	5,994,124	11/30/99	Bozzoni	
A11	6,025,167	02/15/00	Cech et al.	
A12	6,180,399	01/30/01	Cech et al.	
A13	6,214,563	04/10/01	Negulescu et al.	
A14	6,221,587	04/27/01	Ecker et al.	
A15	6,221,612	04/24/01	Knapp et al.	
A16	6,232,070	05/05/01	Shuman	
A17	6,446,032	09/03/02	Schimmel	

FOREIGN PATENT DOCUMENTS

	FOREIGN PATENT DOCUMENT COUNTRY CODE, NUMBER, KIND CODE (IF KNOWN)	DATE	NAME	PAGES, COLUMNS, LINES, WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR	T
B01	WO 91/09942	07/11/91	Board of Regents, The University of Texas System		
B02	WO 98/49274	11/05/98	Appligene-Oncor		
B03	WO 99/20795	04/29/99	Melica HB		
B04	WO 01/12820	02/22/01	Health Research Institute		
B05	WO 01/25486	04/12/01	University of Medicine and Dentistry of New Jersey		
B06	WO 01/92463	12/06/01	Istituto di biologia Cellulare, CNR		
B07	WO 02/083837	10/24/02	Almstead		

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	B08	WO 02/083953	10/24/02	PTC Therapeutics, Inc		
	B09	WO 02/40685	05/23/02	Cornell Research Foundations, Inc.		
	B10	WO 02/42326	05/30/02	Biota Scientific Management Pty LTD		
	B11	WO 04/001010	12/31/03	PTC Therapeutics, Inc.		
	B12	WO 04/087070	10/14/04	PTC Therapeutics, Inc.		
	B13	WO 04/087884	10/14/04	PTC Therapeutics, Inc.		
	B14	DE 3436818	04/10/89	Hoechst AG		
	B15	CN 1328156	12/26/01	Wuhan Inst Of Virology Chinese		

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials		(Include name of the author (in CAPITAL LETTERS), Title, Date, Pertinent Pages, Etc.)	T
C01		ABELSON et al., 1998, "tRNA splicing." Journal of Biological Chemistry 273(21):12685-12688	
C02		ADAMS et al., 1991, "Fluorescence ratio imaging of cyclic AMP in single cells." Nature 349:694-697	
C03		BALDI et al., 1992, "Participation of the intron in the reaction catalyzed by the Xenopus tRNA splicing endonuclease." Science 255:1404-1408.	
C04		BARBINO & KELLER, 1999, "Last but not least: regulated poly(A) tail formation." Cell 99(1):9-11	
C05		BELFORD et al., 1993, "Multiple nucleotide cofactor use by yeast ligase in tRNA splicing. Evidence for independent ATP- and GTP-binding sites" J. Biol. Chem. 268(4):2444-2450	
C06		BELFORT, M., & WEINER, A., 1997, "Another bridge between kingdoms: tRNA splicing in archaea and eukaryotes." Cell 89(7):1003-1006.	
C07		BJORK, G., 1995, "Biosynthesis and Function of Modified Nucleosides, in tRNA: Structure, Biosynthesis and Function." D. Soll & U. RajBhandary (eds.), American Society for Microbiology, Washington DC: pp. 165-205	
C08		BUJNICKI, J.M., & RYCHLEWSKI, L., 2000, "Prediction of a common fold for all four subunits of the yeast tRNA splicing endonuclease: implications for the evolution of the EndA/Sen family." FEBS Lett 486: 328-329.	
C09		BUVOLI et al, 2000, "Suppression of nonsense mutations in cell culture and mice by multimerized suppressor tRNA genes" Molecular and Cellular Biology 20(9):3116-3124	
C10		CALVO, O., AND MANLEY, J.L., 2003, "Strange bedfellows: polyadenylation factors at the promoter." Genes Dev 17(11):1321-1327.	
C11		CHOI AND DREYFUSS, 1984, "Monoclonal antibody characterization of the C proteins of heterogeneous nuclear ribonucleoprotein complexes in vertebrate cells." J. Cell. Biol. 99(6):1997-2004	
C12		CULVER et al., 1997, "A 2'-phosphotransferase implicated in tRNA splicing is essential in <i>Saccharomyces cerevisiae</i> ." J Biol Chem 272:13203-13210.	
C13		DE VRIES, H. et al., 2000, "Human pre-mRNA cleavage factor II(m) contains homologs of yeast proteins and bridges two other cleavage factors." EMBO J 19:5895-5904.	

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	C14	DEUTSCHER, M.P., 1995 "tRNA Processing Nucleases, in tRNA: Structure, Biosynthesis and Function." D. Soll and U. RjaBhandary (eds.), American Society for Microbiology, Washington DC: pp. 51-65	
	C15	DIENER & MOORE, 1998, "Solution Structure of a Substrate for the Archaeal Pre-tRNA Splicing Endonucleases: The Bulge-Helix-Bulge Motif." Mol. Cell. 1:883-894	
	C16	FABBRI, S et al., 1998, "Conservation of substrate recognition mechanisms by tRNA splicing endonucleases." Science 280, 284-286.	
	C17	FRANK & PACE, 1998, "Ribonuclease P: unity and diversity in a tRNA processing ribozyme." Annu Rev Biochem 67, 153-180.	
	C18	FRUSCOLONI et al., 2001, "Cleavage of non-tRNA substrates by eukaryal tRNA splicing endonucleases." EMBO Rep 2(3):217-221	
	C19	GANDINI-ATTARDI, et al., 1990, "Transfer RNA splicing endonuclease from <i>Xenopus laevis</i> ." Methods Enzymol 181:510-517.	
	C20	GENBANK: Accession No: NP_079541: "tRNA splicing endonuclease 2 homolog [Homo sapiens]"	
	C21	GENBANK: Accession No: NT_005927.12: "Homo sapiens chromosome 3 reference genomic contig"	
	C22	GENBANK: Accession No: NT_011225.9: "Homo sapiens chromosome 19 reference genomic contig."	
	C23	GENBANK: Accession No: XP_085899; "similar to LENG5 protein [Homo sapiens]."	
	C24	GOMES et al., 1997, "RNA splicing ligase activity in the archaeon <i>Haloferax volcanii</i> " Biochem & Biophys. Res. Comm. 237:588-94	
	C25	GREER et al., 1982, "Mechanism of action of a yeast RNA ligase in tRNA splicing" Cell 32:537-546	
	C26	GREER., 1986, "Assembly of tRNA Splicing Complex: Evidence for Concerted Excision and Joining Steps in Splicing <i>In Vitro</i> ." Mol. and Cellular. Bio., 6(2):638-642	
	C27	HIROSE AND MANLEY, 2000, "RNA polymerase II and the integration of nuclear events." Genes Dev., 14(12):1415-1429	
	C28	HOPPER, A.K., AND PHIZICKY, E.M., 2003, "tRNA transfers to the limelight." Genes Dev 17(2):162-180.	
	C29	HUH, et al., 2003, "Global analysis of protein localization in budding yeast." Nature 425:686-691.	
	C30	HYDE-DERUYTSCHER et al., 2000, "Detection of Small-Molecule Enzyme Inhibitors with Peptides Isolated from Phage-Displayed Combinatorial Peptide Libraries." Chem. & Biol. 7:17-25	
	C31	IKEMURA, 1985, "Codon Usage and tRNA Content in Unicellular and Multicellular Organisms." Mol. Biol. Evol., 2(1):13-34	
	C32	IKEMURA, T. AND OKEKI, H., 1983, "Codon usage and transfer RNA contents: organism-specific codon-choice patterns in reference to the isoacceptor contents." Cold Spring Harbor Symp. Quant. Biol. 47:1087-1097	
	C33	JACOBSON et al., 1997, "Nuclear domains of the RNA subunit of RNase P." J Cell Sci. 110 ( Pt 7):829-837.	
	C34	KLEMAN-LEYER et al., 1997, "Properties of <i>H. volcanii</i> tRNA Intron Endonuclease Reveal a Relationship between the Archaeal and Eucaryal tRNA Intron Processing Systems." Cell., 89:839-847	
	C35	LASKI, F.A. et al., 1983, "Characterization of tRNA precursor splicing in mammalian extracts." J Biol. Chem. 258(19):11974-11980.	
	C36	LI & ABELSON, 2000, "Crystal Structure of a Dimeric Archaeal Splicing Endonuclease." J. Mol. Biol. 302:639-648.	
	C37	LI et al., 1998, "Crystal structure and evolution of a transfer RNA splicing enzyme" Science 280(5361):279-284	

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	C38	LYKKE-ANDERSEN, J. & GARRETT, R.A., 1997, "RNA-protein interactions of an archaeal homotetrameric splicing endoribonuclease with an exceptional evolutionary history." <i>EMBO J</i> 16(20):6290-6300.	
	C39	MINVIELLE-SEBASTIA, L. & KELLER, W., 1999, "mRNA polyadenylation and its coupling to other RNA processing reactions and to transcription." <i>Curr. Opin. Cell. Biol.</i> 11:352-357	
	C40	O'CONNOR, J.P., & PEEBLES, C.L., 1992, "PTA1, an essential gene of <i>Saccharomyces cerevisiae</i> affecting pre-tRNA processing." <i>Mol Cell Biol</i> 12:3843-3856.	
	C41	OTSUKA, et al., 1981, "Ribonuclease 'Xlal' an activity from <i>Xenopus laevis</i> oocytes that excises intervening sequences from yeast transfer ribonucleic acid precursors." <i>Mol Cell Biol</i> 1:269-280.	
	C42	PARK & BHANDARY, 1998, "Tetracycline-regulated suppression of amber codons in mammalian cells." <i>Mol. &amp; Cell. Biol.</i> 18:4418-4425	
	C43	PHIZICKY et al., 1986, "Saccharomyces cerevisiae tRNA ligase. Purification of the protein and isolation of the structural gene" <i>J. of Biol. Chem.</i> 261(6):2978-2986	
	C44	PREKER et al., 1997, "A multisubunit 3'-end processing factor from yeast containing poly(A) polymerase and homologues of the subunits of mammalian cleavage and polyadenylation specificity factor." <i>EMBO J</i> 16:4727-4737.	
	C45	PROUDFOOT, 2000, "Connecting transcription to messenger RNA processing." <i>Trends Biochem Sci.</i> 2000 Jun;25(6):290-3. Review.	
	C46	QIN & PYLE, 1999, "Site-specific labeling of RNA with fluorophores and other structural probes." <i>Methods</i> 18 (1):60-70	
	C47	RAUHUT et al., 1990, "Yeast tRNA-splicing endonuclease is a heterotrimeric enzyme." <i>J Biol. Chem.</i> 265(30): 18180-18184.	
	C48	REYES & ABELSON 1988, "Substrate Recognition and Splice Site Determination in Yeast tRNA Splicing." <i>Cell</i> , 55:719-730	
	C49	SARKAR & HOPPER., 1998, "tRNA Nuclear Export in <i>Saccharomyces cerevisiae</i> : In Situ Hybridization Analysis." <i>Mol. Biol. of the Cell.</i> , 9:3041-3055	
	C50	SAXENA et al., 1992, "Angiogenin is a Cytotoxic, tRNA-specific Ribonuclease in the RNase A Superfamily." <i>J. of Biol. Chem.</i> 267(30):21982-21986	
	C51	STANDRING et al., 1981, "Yeast tRNA3Leu gene transcribed and spliced in a HeLa cell extract." <i>Proc. Natl. Acad. Sci. USA</i> 78(10):5963-5967.	
	C52	TAKAGAKI et al., 2000, "Complex protein interactions within the human polyadenylation machinery identify a novel component." <i>Mol. Cell. Biol.</i> 20:1515-1525.	
	C53	TAKAKU et al., 2003, "A candidate prostate cancer susceptibility gene encodes tRNA 3' processing endoribonuclease." <i>Nucleic Acids Res</i> 31(9):2272-2278.	
	C54	TROTTA et al., 1997, "The yeast tRNA splicing endonuclease: a tetrameric enzyme with two active site subunits homologous to the archaeal tRNA endonucleases." <i>Cell</i> 89:849-858.	
	C55	TROTTA, C.R. AND ABELSON, J.N., 1999, "tRNA Splicing: An RNA World Add-On or an Ancient Reaction? In RNA World II" Tom Cech, Ray Gesteland and John Atkins (eds.), Cold Spring Harbor Laboratory Press, 561-584	
	C56	TROTTA., 1999, "The Composition, Function and Evolution of the tRNA Splicing Endonuclease." Thesis, California Institute of Technology, pp.1-147	
	C57	TSIEN et al., 1993, "FRET for studying intracellular signaling." <i>Trends in Cell. Bio.</i> 3(7): 242-245	
	C58	VAUGHN et al., 2002, "Methionine In and Out of Proteins: Targets for Drug Design." <i>Curr. Med. Chem.</i> 9(3):385-409	

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C59	VOLAREVIC et al., 2000, "Proliferation, But not Growth Blocked by Conditional Deletion of 40S Ribosomal Protein S6." <i>Science</i> 288:2045-2047	
C60	WAHLE & RUEGSEGGER, 1999, "3'-End processing of pre-mRNA in eukaryotes." <i>FEMS Micro Rev.</i> , 23(3):277-295	
C61	WALLACE et al., 1999, "Two distinct forms of the 64,000 Mr protein of the cleavage stimulation factor are expressed in mouse male germ cells." <i>Proc. Natl. Acad. Sci.</i> 96(12):6763-6768	
C62	WANG et al., 1990, "Substrate Masking: Binding of RNA by EGTA-Inactivated Micrococcal Nuclease Results in Artifactual Inhibition of RNA Processing Reactions." <i>Nuc. Acids Res.</i> 18(22):6625-6626	
C63	WINTER et al., 2000, "RNA polymerase III transcription factor TFIIC2 is overexpressed in ovarian tumors." <i>Proc. Natl. Acad. Sci.</i> , 97(23):12619-12624	
C64	XIAO et al., 2002, "Eukaryotic ribonuclease P: a plurality of ribonucleoprotein enzymes." <i>Annu Rev Biochem</i> 71, 165-189.	
C65	XU et al., 1990, "Purification of yeast transfer RNA ligase." <i>Meth. in Enzymol.</i> 181:463-471	
C66	Yeast Accession No: M32336: SEN2	
C67	Yeast Accession No: YAR008w: SEN34	
C68	Yeast Accession No: YMR059w: SEN15	
C69	Yeast Accession No: YPL083c: SEN54	
C70	YOSHIHISA et al., 2003, "Possibility of cytoplasmic pre-tRNA splicing: the yeast tRNA splicing endonuclease mainly localizes on the mitochondria." <i>Mol Biol Cell</i> 14(8):3266-3279.	
C71	ZHANG et al., 1997, "Gene Expression Profiles in Normal and Cancer Cells." <i>Science</i> 276:1268-1272	
C72	ZHAO, 1999 "Formation of mRNA 3' ends in eukaryotes: mechanism, regulation, and interrelationships with other steps in mRNA synthesis." <i>Microbiol. Mol. Biol. Rev.</i> 63:405-445.	
C73	REYES et al., 1987, "A synthetic substrate for tRNA splicing." <i>Anal. Biochem.</i> 166(1):90-106	

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